

Day 65 - 20/01/2023

Q. New Tablet

Ajinkya decided to buy a new tablet. His budget is B , so he cannot buy a tablet whose price is greater than B . Other than that, he only has one criterion — the area of the tablet's screen should be as large as possible. Of course, the screen of a tablet is always a rectangle.

Ajinkya has visited some tablet shops and listed all of his options. In total, there are N available tablets, numbered 1 through N . For each valid i , the i -th tablet has width W_i , height H_i and price P_i . Help Ajinkya choose a tablet which he should buy and find the area of such a tablet's screen, or determine that he cannot buy any tablet.

Input

The first line of the input contains a single integer T denoting the number of test cases. The description of T test cases follows.

The first line of each test case contains two space-separated integers N and B . N lines follow.

For each i ($1 \leq i \leq N$), the i -th of these lines contains three space-separated integers W_i , H_i and P_i .

Output

For each test case, print a single line. If Ajinkya cannot buy any tablet, it should contain the string "no tablet" (without quotes).

Otherwise, it should contain a single integer — the maximum area of the screen of a tablet Ajinkya can buy.

Sample Input 1

```
3
3 6
3 4 4
5 5 7
5 2 5
2 6
3 6 8
5 4 9
1 10
5 5 10
```

Sample Output 1

```
12
no tablet
25
```

main.py

```
t=int(input())
for A in range(t):
    n,b=map(int,input().split(" "))
    dict={}
    for x in range(n):
        w,h,i=map(int,input().split(" "))
        dict[w*h]=i
    dd=sorted(dict)
    #print(dd)
    for x in range(len(dd)-1,-1,-1):
        m=dict[dd[x]]
        if m<=b:
            print(dd[x])
            break
    else:
        print("no tablet")
```

output

```
3
3 6
3 4 4
5 5 7
5 2 5
2 6
3 6 8
5 4 9
1 10
5 5 10
25
PS E:\Panku\Python> █
```